INDEX TO VOLUME 9, JANUARY-DECEMBER, 1963

PLASTICS TECHNOLOGY

A BILL BROTHERS PUBLICATION

630 Third Avenue, New York 17, N.Y.

**Refers to items of less than one column length.*

A

ABFA Foaming Agent, Pick the Right, *Lasman, H. R. and J. C. Blackwood*....Sep 37
ABS: New Foam Contender....Jun 14
ABS Resin, New*....Oct 109
ASME Highlights (Winter Meeting, '63)...Jan 52
Acetal Patent Suit, Du Pont Drops....Jun 27
Acetals, How to Spin-Weld, *Stemmler, Robert M.* May 42
Acrylic Lens, First for Traffic Signals....Jan 13
Acrylic Prices, Rohm & Haas Cuts....Jul 23
Acrylics, Thermosetting, Here are more data on....the New....May 53
Acrylic Resins, Thermosetting, New Family of, *Fekete, Frank*....Mar 42
Additives
Additives Make Polyethylene Stick....Nov 59
Antistatic Blow-Molding Resins*....Oct 109
Anti-Static Plastics, More*....May 58
Fluorescent Pigment*....Mar 66
Mold Release Agent, New....Aug 68
Mold Release Agent*....Mar 65
Polyester Mold Stick, Stops*....Mar 66
Phenyl Mercury Protects Liquid Emulsion* Mar 64
Plasticizers, Low-Temperature, What Should You Look for in....Jul 34
Plasticizers, What's New in....Aug 45
PE Processing Aid*....Jul 56
Polymerization, Radiation-Induced, Solvents Speed Rates of....Jan 52
Polyolefin UV Resistance, Better....Nov 45
PP Stabilizers, Four New....Apr 17
Static-Free Plastics, How to Make—Part 1, Mar 38
Static-Free Plastics, How to Make (Anti-Static Agents....The Do-It-Yourself Approach)—Part 2....Apr 47
Stearic Acid for PE-Metal Bonds....Feb 11
TiO_2 Complex, Cabot Opens New....Nov 25
UV Stabilizer Increases Polycarbonate Uses* Sep 59
Adhesion, Flame Treating for Good*....Sep 62
Aging Study, PIA Starts....Sep 25
Air Gage, Noncontact, Checks Thickness...Sep 62
Air Washer Cleans Away Smoke*....Apr 60
Alloys, Be-Cu, Use for Molds....Mar 60
ACS Highlights (meeting of Div of Organic Coatings, Sep 1963)....Sep 54
ANTEC, Highlights of 20th....Dec 19
Antistatic Blow Molding Resins*....Oct 109
Automation in Plastics Processing, *Scheiner, L.* Dec 27
Antistatic Plastics, More*....May 58
Auxiliary Equipment
Air Gage, Non Contact, Checks Thickness...Sep 62
Air Washer Cleans Away Smoke*....Apr 60
Ball Bearing, Plastic, Has Low Unit Cost* May 57
Blender, Gravity Dry*....Feb 58
Colorimeter, Absolute Replaces Differential* Oct 19
Color Computer Offers High Speed, Accuracy Nov 12
Container-Filler Has Multiple Discharge*Apr 60
Cutter, Roving, for Continuous Operation* Sep 59
Deflection, Table Model Unit Checks*...Oct 19
Dielectric Strength Tester Offers Reliable Inspection....Oct 107
Dryer, Centrifugal, Dewaters Resin Slurries* Jun 15
Gear Reducer, Two Speed*....Jan 59
Granulator, New, Grinds Plastic Sheeting* Jul 54
Granular Materials, Length Separator for* Jul 56
Grinder, Thermoplastic, Runs Cooler Without Refrigerants*....Aug 73
Hardness Testers Cover Full Range of Elastomers*....Jun 15
Heat Source, New for Plastics Processing..Jan 36
Heaters, Hot Oil*....Oct 19
Heating/Cooling Unit for Accurate Control* Oct 105
Imprinter Designed for Difficult Surfaces*..Sep 59
Izod Impact Testing, 9 Steps to Better...Aug 34
Line Diverter Directs Pneumatic Conveyors* May 62
Metering Screw, Long, Found Most Effective* Mar 63
Mixers, Continuous, for Plastics....May 13
Mold Heater, New, Single-Setting....Sep 16
Packaging Process Eliminates Coating*..Sep 58
Panel Saws, Low-Cost*....Apr 60
Pendulum Analyzes Shear Modulus, Damping*....Mar 63
Pendulum, Torsional, Aids Polymer Study* May 58
Platen Press Makes Spacecraft Components* Apr 60
Potting Machine Has New Features*...May 63
Preplasticizer, Screw, Low-Cost*....Jul 56
Punches, Self-Cleaning*....Nov 66
Pyrolysis Unit Has Dual Probes*....Aug 71
Nozzles, Economy Line*....Jan 57
Optical Profile Gauge Automates Machinery* Jul 54
Oven, Portable Curing*....Jan 57
Oven for Drying Thermoplastics*....Sep 61
Roll Coverings, Treater, Reduce Cost, Save Time*....May 62
Rolls, Alloy Steel, Are Corrosion Resistant Nov 68
Rotogravure Rollers, How to Repair....Jul 40
Sealer, Heat, Eliminates Metal Band Pressure Oct 103
Silica Dilatometer Has Push-Rod System*.Oct 16
Splitter, Conveyorized, Levels PE Foam*.Oct 109
Temperature Control Unit*....May 58
Thermostat Line Is Shell-Sensitive*....Apr 60
Timer, Microflex, Controls 50 Ton Press*.Jun 96
Tunnel Shrinks PE Film*....Oct 105
Turret Winder, Take-Up, Has New Design* Oct 105
Ultrasonic Flaw Detector*....Mar 67
Variable Speed Drive Aids Printing Operation* May 61
Welder for Thermoplastics*....Aug 71
Welding Torch Tips, Interchangeable*....Jul 54
Welders, Two Portable Plastics*....Jan 55

B

Bachner Prize, Engineers Vie for....Feb 26
Ball Bearing, Plastic, Has Low Unit Cost* May 57
BASEMAN, ARNOLD L.
What's New in Plasticizers....Aug 45
BAUER, W. H. AND R. L. COX
What Should You Look for in Low-Temperature Plasticizers?....Jul 34
BEACHAM, H. H., J. LITWIN AND C. W. JOHNSTON
How to Formulate Heat Resistant DAP Polyesters....May 44
BERGER, RICHARD F.
New Directions in Thermoforming....Oct 58
The Big One (editorial)....Oct 47
BIRD, V.
How to Identify Plastic Films....Sep 40
Bleeder Material, New, for Vacuum Molding* Jan 57
Blender, Gravity Dry*....Feb 58
Blow Molder Produces 15 Gallon Container* Jan 57
Blow Molding
Blow Molder Produces 15 Gallon Container* Jan 57
Blow Molding, New, Directions in....Oct 52
Dies for Blow Molding, How to Design with Ram Accumulators....Mar 48
Blow Molding, New Directions in, *Harlung, R. E. and F. W. Hallowell*....Oct 52
Blowing Method, British Push Two-Step...Nov 65
BODNER, SEYMOUR S.
Now You Can Clean Your Own Injection Cylinders....Feb 40
Boron, Two New Compounds, to Cure Epoxies Jan 11
BRONSARD, J. A.
How to Design Dies for Blow Molding with Ram Accumulators....Mar 48

C

CARTER, J. S. AND S. A. MOOREFIELD
A New Look at the New Glass Fibers...Sep 42
Casting and Potting, New Directions in, *Hosford, Robert C.*....Oct 64
Cellular Insulation Patent Issued....Jan 23
CLIFF, WILLIAM, JR.
Die Cutting Goes Electronic....Aug 42
Coatings, New Surface, for Wood, Concrete, Paper, Phenolics....Jan 55
Color Computer, Offers High Speed, Accuracy Nov 12
Colorimeter, Absolute Replaces Differential* Oct 19
Commodity Plastics (editorial)....May 33
Compression & Transfer Machinery
Compression & Transfer Molding, New Directions in....Oct 62
Presses, New Line of, Has Open Gap Design* Oct 108
Container-Filler Has Multiple Discharge*...Apr 60
Copolymers, Flexible E-A, How to Modify Polyethylene with, *Kresuky, B. H., S. Bonotto and P. R. Junghans*....May 34
Corrosion Control, Selecting RP for....Oct 97
Cryostat, The 29ℓ*....Oct 17
Cutter, Roving, for Continuous Operation*.Sep 59

D

DAP Compound Resists Fire*....Mar 64
DAP Polyesters, How to Formulate Heat Resistant, *Beacham, H. H., J. Litwin and C. W. Johnston*....May 44
DPO Resins, Two New, and a Polyimide Film (EI Conference, Sept., '63)....Sep 53
DARR, W. C. AND P. G. GEMEINHARDT
New Directions in Thermosetting Foams..Oct 66
Deflection, Table Model Unit Checks*....Oct 19
Die Cutting Goes Electronic, *Cliff, William, Jr.* Aug 42
Die Cuts Material Rolls*....Jan 59
Die Erosion, Radioisotopes Probe, *Graunke, D. C. and F. S. Jana*....Mar 45
Dielectric Strength Tester Offers Reliable Inspection....Oct 107
Die, Low Cost Hot Stamp*....Mar 63
Dies for Blow Molding, How to Design with Ram Accumulators, *Bronsard, J. A.*...Mar 48
A Disturbing Attitude (editorial)....Sep 31
DONOFRIO, A.,
How to Repair Rotogravure Rollers....Jul 40
Dryer, Centrifugal, Dewaters Resin Slurries* Jun 15

E

Eastman Opens New Lab....Feb 27
EBERT, ROBERT O.,
New Directions in Powder Molding....Oct 56
Electrical Insulation Conference Scheduled for Chicago (Sept., '63)....Aug 29
Electrostatic Paint, Solution Prepares Plastic for*....Feb 60
Encapsulator, Automatic Liquid Resin*...May 57
Encapsulator System*....Jan 55
Epoxy Adhesive*....Jun 96
Epoxy Compounds, Aluminum Fillers for*..Oct 19
Epoxy Dip Coat*....Mar 63
Epoxy Fact-Lift, Tunnel Gets....Mar 12
Epoxy Film Adhesive, New Cures at 75 F..Mar 13
Epoxy Has Good Dielectric Constant....Oct 103

Epoxy Plasticizers Spew, Why, *Little, Jack W., John D. Farr and C. F. Huber*.....Nov 42
Epoxy Spheres, Hollow, for Low Density Filler*.....Oct 16
Epoxy, Water-Resistant, for Industrial Repairs*.....Aug 71
Epoxies for Splinning*.....Sep 61
Epoxies, Try Molding, for Efficient Electronic Potting.....Jul 45
EPSTEIN, G. AND W. BANDARUK,
Crazing of Filament-Wound Composites..Aug 38
Ethylenimine, Low-Cost, Now on Market...Jul 54
Extruder, Auxiliary Equipment, New Developments in.....Sep 60
Extruder, Laboratory, for Color Coding*...Sep 58
Extruder Line, New*.....Oct 109
Extruders
Extruder Auxiliary Equipment, New Developments in.....Sep 60
Extruder, Laboratory, for Color Coding*.Sep 58
Extruder Line, New*.....Oct 109
Extruders, Two Unique (Continuous Ram, Hydrodynamic).....Jan 9
Extrusion, New Directions in.....Oct 54
Extruders, Two Unique (Continuous Ram, Hydrodynamic).....Jan 9
Extrusion, New Directions in, *Weslowe, R. F.*.....Oct 54
Extrusion, SPE Looks at (Highlights of Fall '63 RETEC Meeting).....Jan 51

F

FEKETE, FRANK,
New Family for Thermosetting Acrylic Resins.....Mar 42
Fiber-Forming Properties, New Machine Determines*.....Oct 109
Fiber Glass Roving, High Strength*.....May 17
Filament Winding, Quality Control for, *Skinner, P. N., and S. Breland*.....Jul 36
Filament-Wound Composites, Crazing of, *Epstein, G. and W. Bandaruk*.....Aug 38
Films, Plastic, How to Identify, *Bird, V.*..Sep 40
First of Many, The (editorial).....Aug 33
First Things First (editorial).....Feb 33
FISHER, LOUIS,
New Heat Source for Plastics Processing..Jan 36
Fluidized Bed, Automatic, Coats Electrical Parts*.....Mar 65
Fluorescent Pigment*.....Mar 66
Foam Boards, Pre-Bent, Insulate Church Roof*.....Feb 58
Foam Equipment
Froth Spraying: New Way to Apply Urethane.....Jun 13
Spraying Machine, Automatic, Coats Motor Parts.....May 17
Urethane Foam Production, One-Shot....Jul 28
Urethane Foams, New Machinery for...Nov 36
Urethane, One-Shot System, How to Cut Costs with.....Jan 42
Urethane Spincasting Technique.....Nov 12
Foams
ABFA Foaming Agent, Pick the Right...Sep 37
ABS: New Foam Contender.....Jun 14
Blowing Method, British Push Two-Step..Nov 65
Cellular Insulation Patent Issued.....Jan 23
Foam Boards, Pre-Bent, Insulate Church Roof*.....Feb 58
Foams, Climate-Proof*.....Mar 63
Polyethers Made from Cereal Starch....Oct 15
PS, Expandable, Automatic Molding of*..Sep 61
Thermoplastic Foams, New Directions in..Oct 68
Thermosetting Foams, New Directions in..Oct 66
Urethane Foam Production, One Shot....Jul 28
Foams, Climate-Proof*.....Mar 63
Forming Fixture, Adjustable, *Weber, C. H.*..Jan 39
Forming Machine, High-Speed*.....Sep 60
Froth Spraying: New Way to Apply Urethane.....Jun 13

G

Gear Reducer, Two-Speed*.....Jan 59
Glass Fibers, A New Look at....the New, *Carter, J. S. and S. A. Moorefield*.....Sep 42
GMITTER, G. AND E. JAUL,
One-Shot Urethane Foam Production.....Jul 28
Granular Materials, Length Separator for*..Jul 56
Granulator, New, Grinds Plastic Sheeting..Jul 54
GRAUNKE, D. C. AND F. S. JANA,
Radioisotopes Probe Die Erosion.....Mar 45
Grinder, Thermoplastic, Runs Cooler Without Refrigerants*.....Aug 73

H

Hardness Testers Cover Full Range of Elastomers*.....Jun 15
HARTUNG, R. E. AND F. W. HALLOWELL,
New Directions in Blow Molding.....Oct 52
Heat Source, New, for Plastics Processing, *Fisher, Louis*.....Jan 36
Heaters, Hot Oil*.....Oct 19
Heating/Cooling Unit for Accurate Control*.....Oct 105
HENDRY, JAMES W.,
Injection Welding....Ups Molding Machine Capacity.....Apr 38
High-Temperature Resin, New.....Sep 15
Hose, Reinforced, for Vacuum Pressure*...May 60
HOSFORD, ROBERT C.,
New Directions in Casting and Potting..Oct 64
New Machinery for Urethane Foams...Nov 36
How Much Value? (editorial).....Jul 27
HULL, JAMES W.,
New Directions in Plastisols.....Oct 60

I

ISO/TC 61? (editorial).....Mar 37
Impact Properties Screened.....Jul 46
Imprinter Designed for Difficult Surfaces*..Sep 59
Injection Cylinders, Now You Can....Clean Your Own, *Bodner, Seymour S.*.....Feb 40
Injection Molder, New, Dual Role for.....Mar 11
Injection Molder, New, Offers Plunger or Screw*.....Jun 97
Injection Molder Has Unit-Block Shape*...Apr 60
Injection Molders, Rotary, Two New.....Feb 15
Injection Molding
Injection Cylinders, Now You Can....Clean Your Own.....Feb 40
Injector Molder, New, Dual Role for....Mar 11
Injection Molder, New, Offers Plunger or Screw*.....Jun 97
Injection Mold : Has Unit-Block Shape*.Apr 60
Injection Molders, Rotary, Two New....Feb 15
Injection Molding, New Directions in....Oct 50
Injection Welding....Ups Molding Machine Capacity.....Apr 38
Injection Molding, New Directions in, *Plasse, Paul A.*.....Oct 50
Injection Welding....Ups Molding Machine Capacity, *Hendry, James W.*.....Apr 38
Inks, New, Print on Untreated Polyester*..Sep 59
Integral Weaving Strengthens Structural Panels.....Aug 67
Interplas, News from (1963).....Aug 11
Inverter, New Solid-State*.....Oct 19
Izod Impact Testing, 9 Steps to Better, *Johnston, G. D.*.....Aug 34

J

JOHNSTON, G. D.,
9 Steps to Better Izod Impact Testing...Aug 34

K

KREVSKY, B. H., S. BONOTTO, P. R. JUNGHANS
How to Modify Polyethylene with Flexible E-A Copolymers.....May 34
Kunststoffe Preview (Oct. '63).....Sep 25
Kunststoffe '63.....Dec 10

L

Lab, Plastics, New, California Chemical Opens.....Jul 21
Laminate, New, Bows*.....Jun 96
Laminate, New Electrical Tests for.....Jun 91
Laminates, High Pressure, Continuous Production Process for, *Raphael, Thomas and Richard W. Merrill*.....Feb 44
LANDROCK, ARTHUR H.,
New Directions in Reinforced Plastics...Oct 70
LASMAN, H. R. AND J. C. BLACKWOOD,
Pick the Right ABFA Foaming Agent....Sep 37
Line Diverter Directs Pneumatic Conveyors*.....May 62
LITTLE, JACK W., JOHN D. FARR AND CLARENCE F. HUBER,
Why Epoxy Plasticizers Spew.....Nov 42

M

Machinery, Selection Guide to Plastics....Jun 43
Blow Molding Machines
Compression and Transfer Molding Presses
Extruders
Injection Molding Machines
Rotational Molding Machines
Thermoforming Machines
Marking Inks, Non-Fading*.....Mar 66
MARTINOVICH, R. J.,
Better Polyolefin UV Resistance.....Nov 45
Mat-Reinforced Plastics, Chemical Resistance of, *Torres, A. F. and S. S. Feuer*.....Apr 41
Metering Screw, Long, Found Most Effective*.....Mar 63
Mil Specs, Stricter Tolerances Key to New..Oct 34
Mixers, Continuous, for Plastics.....May 13
Mold Heater, New, Single-Setting.....Sep 16
Mold Release Agent*.....Mar 65
Mold Release Agent, New.....Aug 68
Molding Resin, New German, Debuts.....Mar 59
Molded Plastics, Metal Inserts for*.....Oct 105
More About You (editorial).....Jun 41

N

NEMA Opens New Laboratory.....Jun 28
New Directions in Plastics Processing (editorial).....Oct 49
NORWALK, S., J. A. ELDER and J. C. MILLER
How to Process the New Phenoxies.....Feb 34
Nozzles, Economy Line*.....Jan 57
Nylon Price Dips*.....Apr 30

O

Optical Profile Gauge Automates Machinery..Jul 54
Oven, Portable Curing*.....Jan 57
Oven for Drying Thermoplastics*.....Sep 61

P

Packaging, Plastics in (32nd National Packaging Conference and Exposition).....May 26
Packaging Process Eliminates Coating*.....Sep 58
Packaging Show to Open (32nd National Packaging Conference, Apr., 1963).....Apr 30
Panel Saws, Low-Cost*.....Apr 60
Pendulum Analyzes Shear Modulus, Damping*.....Mar 63
Pendulum, Torsional, Aids Polymer Study*..May 58
Phenolic Laminating Resin, New.....Jul 55
Phenolics, Better Properties, Cycles Claimed for.....Nov 6
Phenoxies, New, How to Process, *Norwalk, S., J. A. Elder and J. C. Miller*.....Feb 34
Phenyl Mercury Protects Liquid Emulsion*..Mar 62
Phillip Morris Box, The Story on.....Apr 13
Phthalic Anhydride Prices Up.....Oct 33
Pipe Materials, Thermoplastic, Here are New Stress Data for.....Aug 68
Pipe, New Flexible*.....Oct 108
PLASSE, PAUL A.
New Directions in Injection Molding.....Oct 50
Plasticizers, Low Temperature, What Should You Look for in, *Bauer, W. H. and R. L. Cox*.....Jul 34
Plasticizers, What's New in, *Baseman, Arnold L.*.....Aug 45
Plastic Exhaust Installed.....Apr 59
Plastics Exposition, 10th National, Program, and Alphabetical Listing of Exhibitors and Products.....Oct 74
PIA Conference Slated (Dec, 1963).....Nov 26
PIA Holds First Meeting.....Mar 30
Plastics, New Developments in (From Annual SPE Meeting, 1963).....Apr 44
Plastics Upgrade Wood*.....May 60
Plastisols, New Directions in, *Husl, James W.*..Oct 60
Platen Press Makes Spacecraft Components*.....Apr 60
PBI Resins, More Data Reported on New..May 55
Polyamide, Three New Resins.....Dec 9
Polyester Mold Stick, Stops*.....Mar 66
Polyethers Made from Cereal Starch.....Oct 15
PE Coats for Iron Rails*.....Nov 66
PE Drum, Stackable, Saves Cost, Maintenance*.....Jun 17
PE Extrusion Process Aids Flexible Packaging*.....Jun 15
PE, New Process Jackets Fibers and Metals in.....Jul 13
PE Film, Non-Blocking*.....Jan 57
PE Film, Tunnel Shrinks*.....Oct 105
PE Processing Aid*.....Jul 56
PE Wire Resin, More Data on, For REA Use.....Aug 73
Polyethylene, Additives Make Stick.....Nov 59
Polyethylene Coating Solves Dust Problem*.....May 61
Polyethylene, High Molecular Weight, How to Process.....Jan 32
Polymerization, Radiation-Induced, Solvents Speed Rates of.....Jan 53
Polyolefin Producers Continue Price Cuts...Jan 21
Polyolefin UV Resistance, Better, *Martinovich, R. J.*.....Nov 45
Polyolefins, Enjay Gets Plant for Coloring...Aug 29
PP Agitator, A Look at the New.....Oct 16
PP Dyeing Problem, New Fiber Ends.....Jul 15
PP Film, Oriented (1—New Process Improves Sealing).....May 14
PP Film, Oriented (2—More New Films Bow).....May 15
PP/Rubber Laminate, British, Bows.....Apr 56
PP Stabilizers, Four New.....Apr 17
Polypropylene Extrusion Coating Goes Commercial.....Jan 21
PS Expandable, Automatic Molding of*....Sep 61
Polystyrene Approved for Bomb Crates*...Sep 58
Polystyrene, New High-Impact*.....Jun 97
Polystyrene Prices, Dow Drops.....May 25
PVC, New Plasticizer for*.....Jun 17
PVC Price Jump, Monsanto Sets Pace with*..Jun 27
PVC, New Reactive Plasticizer for.....Jul 11
PVC, Rigid, Now You Can Injection Mold, *Lowell Scheiner*.....Sep 32
PVC Woven into Cloth*.....May 17
PVF Film Protects Laminates.....Feb 56
Potting Machine Has New Features*.....May 63
Powder Molding Grows.....Apr 55
Powder Molding, New Directions in, *Ebert, Robert O.*.....Oct 56
Preplasticizers, Screw, Low-Cost*.....Jul 56
Prepreg, New Expoxy-Glass.....Apr 14
Prepreg Plastic Glass Tests at 500,000 psi*..Nov 66
Presses, New Line of, Has Open Gap Design*.Oct 108
Propeller, Glass Fiber, Light, Low-Cost*...Jan 59
Propylene Copolymer, New.....Nov 15
Punches, Self-Cleaning*.....Nov 66
Pyrolysis Unit Has Dual Probes*.....Aug 71

R

RAPHAEL, THOMAS and RICHARD E. MERRILL
Continuous Production Process for High Pressure Laminates.....Feb 44
Realism in Plastics Data (editorial).....Nov 35
Refrigerator Parts, Tests for*.....Nov 26
RP Aerial Lift, A Two-Man*.....Aug 71
RP Award Winners Named (18th Annual Conf., RP Div. of SPI).....Mar 29
RP Gives Lift to Planes.....Apr 56
RP, New Autoclave for Molding*.....Oct 108
RP Output, Automation Improves.....Nov 64
RP Polyesters, Glycols Improve Chemical Resistance of.....Oct 17
RP Testing, New Nondestructive, Uses CEBM Unit*.....Oct 98
RP Tubing Has High Strength, Good Insulation*.....Jul 54
Reinforced Plastics
Filament Winding, Quality Control for...Jul 36
Filament-Wound Composites, Crazing of..Aug 38
Corrosion Control, Selecting RP for.....Oct 97
Fiber-Forming Properties, New Machine Determines*.....Oct 10

Fiber Glass Roving, High-Strength*....May 17
Glass Fibers, The New....Sep 42
Hose, Reinforced, for Vacuum-Pressure*..May 60
Integral Weaving Strengthens Structural Panels....Aug 67
Laminate, New, Bows*....Jun 96
Laminates, New Electrical Tests for....Jun 91
Laminates, High Pressure, Continuous Production Process for....Feb 44
Mat-Reinforced Plastics, Chemical Resistance of....Apr 41
Prepreg, New Epoxy-Glass....Apr 14
Prepreg Plastic Glass Tests at 500,000 psi* Nov 66
Propeller, Glass Fiber, Light, Low-Cost*..Jan 59
RP Aerial Lift, A Two-Man*....Aug 71
RP Gives Lift to Planes....Apr 56
RP, New Autoclave for Molding*....Oct 108
RP Output, Automation Improves....Nov 64
RP Polyesters, Glycols Improve Chemical Resistance of....Oct 17
RP Testing, New Nondestructive, Uses CEBM Unit*....Oct 98
RP Tubing Has High Strength, Good Insulation*....Jul 54
Reinforced Plastics, New Directions in...Oct 70
Tank Car, Glass, Finally Makes Railroad Debut....May 57
Textiles, Graphite and Carbon, Here Are Latest Data on....Feb 14
Tooling, Hot plastic....Nov 49
Reinforced Plastics, New Directions in, *Landrock, Arthur H.*....Oct 70
Research, Government, US Probes Commercial Use for....Jun 27
Roll Coverings, Treater, Reduce Cost, Save Time*....May 62
Rolls, Alloy Steel, Are Corrosion Resistant*..Nov 68
Rotogravure Rollers, How to Repair, *Donofrio, A.*....Jul 40
Rotational Casting with PVC....Mar 60

S

SPE ANTEC Highlights New Ideas (19th ANTEC, Feb., 1963)....Feb 25
SPE Elects 1963 Slate of Officers....Apr 29
SPI Conference, Chicago Hosts (RP Div.'s 18th Conference, Feb., 1963)....Jan 22
SPI Probes Test Methods (18th Annual Conference of RP Div., Feb., 1963)....Feb 55
SCHEINER, LOWELL
Now You Can Injection Mold Rigid PVC..Sep 32
Sealer Compound Now Made in US....Apr 59
Sealer, Heat, Eliminates Metal Band Pressure....Oct 103
SEELE, MICHAEL
How to Cut Costs with One-Shot Urethane System....Jan 42
SHEDD, DANIEL P.
New Directions in Thermoplastic Foams..Oct 68
Shoe Cushion, Latex and Urethane Wedded in*....Sep 62
Shoes and Boots, Plastic, Three New Developments for....Jun 17
Shrink-Free Resins*....Jul 56
Silica Dilatometer Has Push-Rod System*..Oct 16
Silicone-Acrylic Coat Keeps Copper Tarnish-Free....Mar 15
Sink Strainer, First Plastic, Reported....Sep 17
SKINNER, P. N. and S. BRELANT
Quality Control for Filament Winding....Jul 36
Splitter, Conveyorized, Levels PE Foam*...Oct 109
Spraying Machine, Automatic, Coats Motor Parts....May 17
Static-Free Plastics, How to Make—Part 1, *Tremain, H. Earl*....Mar 38
Static-Free Plastics, How to Make—Part 2 . . . The Do-It-Yourself Approach, *Tremain, H. Earl*....Apr 47
Stearic Acid for PE-Metal Bonds, *Tremain H. Earl*....Feb 11
STEMMLER, ROBERT M.
How to Spin-Weld Acetals....May 42
STERMAN, S. and J. G. MARSDEN
Improved Thermosetting Systems....May 38
Storage, Programmed*....May 57

T

TAPPI Conference Set (18th Plastics-Paper Conference, Oct., 1963)....Sep 26
TiO_2 Complex, Cabot Opens New....Nov 25
Tank Car, Glass, Finally Makes Railroad Debut....May 57
Temperature Control Unit*....May 58
Textiles, Graphite and Carbon, Here are the Latest Data on....Feb 14
TFE Degradation....Dec 57
Thermoforming
Forming Fixture, Adjustable....Jan 39
Forming Machine, High-Speed*....Sep 60
Phillip Morris Box, The Story on....Apr 13
Thermoforming Method, New, Makes Bid for Packaging Field....Aug 13
Thermoforming, New Directions in....Oct 58
Thermoforming Method, New, Makes Bid for Packaging Field....Aug 13
Thermoforming, New Directions in, *Berger, Richard F.*....Oct 58
Thermoplastic Foams, New Directions in, *Shedd, Daniel P.*....Oct 68
Thermoplastics
ABS: New Foam Contender....Jun 14
ABS Resin, New*....Oct 109
Acetals, How to Spin-Weld....May 42
Acrylic Lens, First for Traffic Signals....Jan 13
Copolymers, Flexible E-A, How to Modify Polyethylene with....May 34
Molding Resin (Nylon), New German, Debuts Mar 59
Pipe, New Flexible*....Oct 108
Plastisols, New Directions in....Oct 60
Phenoxies, New, How to Process....Feb 34
Pipe Materials, Thermoplastic, Here are New Stress Data for....Aug 68
PE Coats for Iron Rails*....Nov 66
PE Drum, Stackable, Saves Cost, Maintenance*....Jun 17
PE Extrusion Process Aids Flexible Packaging*....Jun 15
PE Film, Non-Blocking*....Jan 57
PF, New Process Jackets Fibers and Metals in....Jul 13
PE Wire Resin, More Data on, for REA Use....Aug 73
Polyethylene Coating Solves Dust Problem* May 61
Polyethylene, High Molecular Weight, How to Process....Jan 32
Polyolefins, Enjay Gets Plant for Coloring..Aug 29
PP Agitators, A Look at the New....Oct 16
PP Dyeing Problem, New Fiber Ends....Jul 15
PP Film, Oriented, 1—New Process Improves Sealing....May 14
PP Film, Oriented, 2—More New Films Bow....May 15
PP/Rubber Laminate, British, Bows....Apr 56
Polypropylene Extrusion Coating Goes Commercial....Jan 21
Polystyrene Approved for Bomb Crates*..Sep 58
Polystyrene, New High-Impact*....Jun 97
PVC, New Plasticizer for*....Jun 17
PVC, New Reactive Plasticizer for....Jul 11
PVC, Rigid, Now You Can Injection Mold..Sep 32
PVC Woven into Cloth*....May 17
PVC Film Protects Laminates....Feb 56
Powder Molding Grows....Apr 55
Powder Molding, New Directions in....Oct 56
Propylene Copolymer, New....Nov 15
Rotational Casting with PVC....Mar 60
Shoes and Boots, Plastic, Three New Developments for....Jun 17
Sink Strainer, First Plastic, Reported....Sep 17
Thermoset Fights Rust*....Mar 15
Thermosets
Acrylics, Thermosetting, Here are more data on . . . the New....May 53
Acrylic Resins, Thermosetting, New Family of....Mar 42
Boron, Two New Compounds, to Cure Epoxies Jan 11
Casting and Potting, New Directions in..Oct 64
Cryostat, The 29¢*....Oct 17
DAP Compound Resists Fire*....Mar 64
DAP Polyesters, How to Formulate Heat Resistant....May 44
DPO Resins, Two New, and a Polyimide Film....Sep 53
Encapsulator, Automatic Liquid Resin*..May 57
Encapsulator System*....Jan 55
Epoxies, Try Molding, for Efficient Electronic Potting....Jul 45
Epoxy Adhesive*....Jun 96
Epoxy Compounds, Aluminum Fillers for*..Oct 19
Epoxy Dip Coat*....Mar 63
Epoxy Face-Lift, Tunnel Gets....Mar 12
Epoxy Film Adhesive, New, Cures at 75 F..Mar 13
Epoxy Has Good Dielectric Constant....Oct 103
Epoxy Plasticizers Spew, Why....Nov 42
Epoxy Spheres, Hollow, for Low Density Filler*....Oct 16
Epoxy, Water-Resistant, for Industrial Repairs*....Aug 71
Epoxies for Spinning*....Sep 61
Ethylenimine, Low-Cost, Now on Market..Jul 54
Films, Plastic, How to Identify....Sep 40
Fluidized Bed, Automatic, Coats Electrical Parts*....Mar 65
High-Temperature Resin, New....Sep 15
Phenolic Laminating Resin, New....Jul 55
Phenolics, Better Properties, Cycles Claimed for....Nov 64
Plastic Exhaust, Installed....Apr 59
Plastics Upgrade Wood*....May 60
PBI Resins, More Data Reported on New May 55
Polyester Mold Stick, Stops....Mar 60
Sealer Compound Now Made in US....Apr 59
Shoe Cushion, Latex and Urethane Wedded in*....Sep 62
Shoes and Boots, Plastic, Three New Developments for....Jun 17
Shrink-Free Resins*....Jul 56
Silicone-Acrylic Coat Keeps Copper Tarnish-Free....Mar 15
Thermoset Fights Rust*....Mar 15
Thermosetting Foams, New Directions in..Oct 66
Thermosetting Molding Methods, Two New Modifications of....Feb 42
Thermosetting Systems, Improved....May 38
Urethane Coatings, New Dimer-Acid Based Nov 11
Urethane Floor Coating Has Good Resistance* Oct 105
Urethane, Microcell, Forms No-Rebound Pad* Feb 60
Thermosetting Foams, New Directions in *Darr, W. C. and P. G. Gemeinhardt*....Oct 66
Thermosetting Molding Methods, Two New Modifications of . . . , *PT Staff Report*..Feb 42
Thermosetting Systems, Improved, *S. Sterman, J. G. Marsden*....May 38
Thermostat Line is Shell-Sensitive....Apr 60
Timer, Microflex, Controls 50 Ton Press*...Jun 96
Titanium Information Lab Opens....Oct 33
Tooling, Hot Plastic, *Vuksanovich, M. S.*....Nov 49
TORRES, A. F. and S. S. FEUER
Chemical Resistance of Mat-Reinforced Plastics....Apr 41
TREMAIN, H. EARL
How to Make Plastics Static-Free—Part 1 Mar 38
How to Make Plastics Static-Free—Part 2, The Do-It-Yourself Approach....Apr 47
Stearic Acid for PE-Metal Bonds....Feb 11
Turret Winder, Take-Up Has New Design*..Oct 105

U

UV Stabilizer Increases Polycarbonate Uses*..Sep 59
Ultrasonic Flaw Detector*....Mar 67
Urethane Coatings, New Dimer-Acid Based..Nov 11
Urethane Floor Coating Has Good Resistance* Oct 105
Urethane Foam Production, One-Shot, *Gmitter, G. and E. Jaul*....Jul 28
Urethane Foams, New Machinery for, *Hosford, Robert C.*....Nov 36
Urethane Head Cries 'Foul'....Feb 26
Urethane, Microcell, Forms No-Rebound Pad* Feb 60
Urethane, One-Shot System, How to Cut Costs with, *Seele, Michael*....Jan 42
Urethane Spincasting Technique....Nov 12

V

Variable Speed Drive Aids Printing Operation* May 61
Vinyl, PU, Curing....Nov 68
VUKSANOVICH, M. S.
Hot Plastic Tooling....Nov 49

W

WEBER, C. H.
Adjustable Forming Fixture....Jan 39
Welder for Thermoplastics*....Aug 71
Welding Torch Tips, Interchangeable*....Jul 54
Welders, Two Portable Plastics*....Jan 55
WESTOVER, R. F.
New Directions in Extrusion....Oct 54
What's Your Function? (editorial)....Jan 31
Where is the Engineer? (editorial)....Apr 37